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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/667,970	09/23/2003	Seung-Gi Chang	Q76936	7887
23373 7590 03/26/2007 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037			EXAMINER	
			PHILIPPE, GIMS S	
			ART UNIT	PAPER NUMBER
	,		2621	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE
3 MONTHS		03/26/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)				
		10/667,970	CHANG ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Gims S. Philippe	2621				
Period fo	The MAILING DATE of this communication ap r Reply	pears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)	Responsive to communication(s) filed on						
•	:	· s action is non-final.					
· -							
•	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
	on of Claims						
•	Claim(s) <u>1-13</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
· <u> </u>	5) Claim(s) is/are allowed. 6) Claim(s) <u>1,6 and 9</u> is/are rejected.						
·	Claim(s) <u>7.0 and 5</u> is/are rejected. Claim(s) <u>2-5,7,8 and 10-13</u> is/are objected to.						
· · · · · · · · · · · · · · · · · · ·	Claim(s) are subject to restriction and/o	or election requirement					
. 0)	ciain(s) are subject to restriction and/c	or election requirement.					
Applicati	on Papers						
9) 🗌 -	The specification is objected to by the Examine	er,					
10) 🔲 🤈	The drawing(s) filed on is/are: a)☐ acc	cepted or b) objected to by the I	Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	nder 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
	☑ All b)☐ Some * c)☐ None of:	, priority arrable of electrical					
	1.⊠ Certified copies of the priority document	ts have been received					
	2. Certified copies of the priority documents have been received in Application No.						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
	•						
Attachment(s)							
1) Motice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P					
Paper No(s)/Mail Date <u>9/23/03</u> . 6) Other:							

DETAILED ACTION

This is a first office action in response to application no. 10/665,895 filed on September 18 2003 in which claims 1-13 are presented for examination.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 1, 6 and 9 are rejected under 35 U.S.C. 102(e) as being anticipated by Zhang et al. (US Patent Application Publication no. 2002/0010938).

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Regarding claims 1, 6 and 9, Zhang discloses the same bit rate control apparatus and method comprising performing initialization in which a video frame is inputted and a memory is allocated to a rate distortion buffer where an encoded bitstream to be transmitted to a decoder is stored (See Zhang [0026], lines 8-11); intra-coding the inputted video frame (See Zhang [0130], lines 9-11); updating the rate distortion buffer (See Zhang [0026], lines 14-17); performing post-frame skip in which whether or not a next video frame should be encoded is determined to avoid underflow or overflow of the rate distortion buffer (See Zhang fig. 9, item 960, [0026] and [0126]); receiving the next video frame, and estimating a quantization parameter id the received video frame is not a first video object plane (See [0124], lines 3-6), and inter-coding the received video frame if the received video frame is a first video object plane (See [0124], lines 10-16); performing one of a back propagation model update and a self-organization control based on the number of inputted video frames after inter-coding the next video frame, and then performing the post-frame skip again (See [0125-0126]); receiving the next video frame and estimating quantization parameters of all the video frames or performing the self-organizing control in all the video frames (See [0115 and 0124]).

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3. Claims 2-5, 7-8, 10-13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Jacquin et al. (US Patent no. 6167162) teaches rate-distortion optimized coding mode selection for video coders.

Vetro et al. (US Patent no. 6542545) teaches estimating rate-distortion characteristics of binary shape data.

Vetro et al. (US Patent Application Publication no. 2003/0007558) teaches encoding a video with a variable frame-rate while minimizing total average distortion.

Liang et al. (US Patent no. 5909513) teaches bit allocation for sequence image compression.

Zhang et al. (US Patent Application Publication no. 2005/0155080) teaches resource allocation in multi-stream IP network for optimized quality of service.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gims S. Philippe whose telephone number is (571) 272-7336. The examiner can normally be reached on M-F (10:30-7:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dastouri Mehrdad can be reached on (571) 272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Gims S Philippè

Primary Examiner Art Unit 2621

GSP

March 21, 2007